

SUBSTITUTE FOR FORM IPC/SB/08 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT								ATTY DOCKET NO: FRANCH=4B		SERIAL NO: 10/593,868					
								FIRST INVENTOR: FRANCH, Thomas							
								FILING DATE: September 22, 2006							
U.S. PATENT DOCUMENTS (include at least patentee, patent number and issue date)															
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	PATENTEE		FILING DATE IF APPROP.			
	AA	6	4	2	9	3	0	0	Aug 6, 2002	Kurz, M et al.					
	AB	6	2	0	7	4	4	6	Mar 27, 2001	Szostak, J et al.					
	AC	6	1	4	3	5	0	3	Nov 7, 2000	Baskerville, DS et al.					
	AD	6	6	2	0	5	8	7	Sept 16, 2002	Taussig, MJ et al.	May 28, 1998				
	AE	20	03	00	04	1	2	2	Jan 2, 2003	Beigelman et al.	April 4, 2001				
	AF	6	5	9	3	0	8	8	Jul 15, 2003	Saito, I et al.		Aug 24, 2000			
	AG	5	5	7	1	9	0	3	Nov 5, 1991	Gryaznov, SM et al.					
	AH	5	4	7	6	9	3	0	Dec 19, 1995	Letsinger, RL et al.					
	AI	5	6	8	1	9	4	3	Oct 28, 1997	Letsinger, RL et al.					
	AJ	5	7	8	0	6	1	3	Jul 14, 1998	Letsinger, RL et al.					
	AK	5	7	4	1	6	4	3	Apr 21, 1998	Gryaznov, SM et al.					
	AL	5	8	3	0	6	5	8	Nov 3, 1998	Gryaznov, SM et al.					
	AM	5	8	4	3	6	5	0	Dec 1, 1998	Segev, D					
	AN	5	5	0	3	8	0	5	Apr 2, 1993	Sugarman et al.					
	AO	5	6	3	9	6	0	3	Jun 17, 1997	Dower et al.					
	AP	5	6	6	5	9	7	5	Sep 9, 1997	Kedar et al.					
	AQ	5	7	0	8	1	5	3	Jan 13, 1998	Dower et al.					
	AR	5	7	7	0	3	5	8	Jun 23, 1998	Dower et al.					
	AS	5	7	8	9	1	6	2	Aug 4, 1998	Dower et al.					
	AT	6	0	5	6	9	2	6	May 2, 2000	Sugarman et al.	July 23, 1996				
	AU	6	1	4	0	4	9	3	Oct 31, 2000	Dower et al.	Sept 11, 1998				
	AV	6	1	4	3	4	9	7	Nov 2, 2000	Dower et al.	Mar 6, 1998				
	AW	6	1	6	5	7	1	7	Dec 26, 2000	Dower et al.	May 13, 1998				
	AX	6	1	6	5	7	7	6	Dec 26, 2000	Kedar et al.	Jul 2, 1998				
	AY	6	4	1	6	0	4	9	July 9, 2002	Dower et al.	Feb 24, 1999				
	AZ	5	5	7	3	9	9	5	Nov. 12, 1996	Lerner, RL et al.					
	BA	5	7	2	3	5	0	6	Mar 3, 1998	Lerner, RL et al.					
	BB	6	0	6	0	5	0	6	May 9, 2000	Lerner, R et al.	Mar 3, 1998				
	BC	4	6	2	2	7	3	1	April 18, 1989	Watson et al.					
	BD	6	2	9	7	0	5	3	October 2, 2001	Stemmer					
	BE	20	05	00	25	7	6	6	February 2, 2005	Liu et al.					
	BE	20	05	00	42	6	6	9	February 24, 2005	Liu et al.					
	BG	20	05	00	42	6	6	9	Published 24 February 2005	Liu, David R					
	BH	20	05	00	25	7	6	6	Published 3 February 2005	Liu, David R					
	BI	20	05	14	2	5	8	3	30 June 2005	Liu, David R					
	BJ	20	05	17	0	3	7	6	4 Aug 2005	Liu, David R					
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		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES/NO			
	BK	9	3	0	3	1	7	2	18 Feb 1993	PCT					
	BL	9	8	3	1	7	0	0	23 July 1998	PCT					
	BM	0	0	3	2	8	2	3	8 June 2000	PCT					
	BN	0	0	4	7	7	7	5	17 Aug 2000	PCT					
	BO	9	0	0	5	7	8	5	31 May 1990	PCT					
	BP	0	3	2	4	6	1	6	19 July 1989	EP					
	BQ	9	6	3	5	6	9	9	14 Nov 1996	PCT					
	BR	0	6	9	5	3	0	5	27 October 1994	EP					
	BS	0	0	6	1	7	7	5	19 October 2000	PCT					
	BT	0	6	0	4	5	5	2	1 April 1993	EP					
	BU	9	5	1	2	6	0	8	11 May 1995	PCT					
	BV	0	7	7	3	2	2	7	14 May 1997	EP					
	BW	0	7	7	6	3	3	0	4 October 1996	EP					
	BX	0	6	4	3	7	7	8	14 Oct. 1993	EP					
	BY	0	0	2	3	4	5	8	27 April 2000	PCT					
	BZ	0	2	0	7	4	9	29	26 Sept 2002	PCT					
	CA	20	04	01	6	7	6	7	26 Feb 2004	PCT					
	CB	9	8	5	6	9	0	4	17 Dec 1998	PCT					
	CC	0	1	0	0	8	7	6	4 Jan. 2001	PCT					
	CD	9	6	1	2	0	1	4	25 April 1996	PCT					
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	TM 3	03	0	7	8	6	2	5	25 Sept 2003	PCT					
	TM 4	20	04	01	3	0	7	0	12 Feb 2004	PCT					
	TM 5	20	04	11	0	9	6	4	23 12 2004	PCT					
	TM 6	20	04	02	4	9	2	9	25 March 2004	PCT					
	TM 7	20	04	05	6	9	9	4	8 July 2004	PCT					
	TM 8	20	04	00	9	8	1	4	29 Jan 2004	PCT					
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	TM 13	03	0	7	8	6	2	6	25 Sept 2003	PCT					
	TM 14	20	04	00	1	0	4	2	31 Dec 2003	PCT					
	TM 15	03	0	7	8	0	5	0	25 Sept 2003	PCT					
	TM 16	03	0	7	8	4	4	6	25 Sept 2003	PCT					
	TM 17	03	0	7	8	6	2	7	25 Sept 2003	PCT					
	TM 18	20	04	07	4	5	0	1	2 Sept 2004	PCT					
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	TM 19	20	04	07	4	4	2	9	2 Sept 2004	PCT							
	TM 20	20	04	08	3	4	2	7	30 Sept 2004	PCT							
	TM 21	1	5	3	3	3	8	5	25 May, 2005	EP							
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	TM 23	20	04	03	9	8	2	5	13 May 2004	PCT							
	TM 24	20	05	02	6	3	8	7	24 March 2005	PCT							
	CE	20	04	09	9	4	4	1	18 Nov 2004	PCT							
	CF	03	0	8	2	9	0	1	9 Oct 2003	PCT							
	CG	9	1	0	5	0	5	8	18 April 1991	PCT							
	CH	9	6	0	9	3	1	6	March 28, 1996	PCT							
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	CK	9	9	5	1	7	7	3	Oct 14 1999	PCT							
	CL	20	06	04	8	0	2	5	11 May 2006	PCT							
	GS	20	06	05	3	5	7	1	26 May 2006	PCT							
	ISR1	9	5	0	4	1	6	0	9 Feb. 1995	PCT							
OTHER DOCUMENTS (include author, title, name of publication, volume, pages & date of publication)																	
	CM	Nemoto, N et al. "In vitro virus: bonding of mRNA bearing puromycin at the 3'-terminal end to the C-terminal end of its encoded protein on the ribosome in vitro". FEBS Lett. 1997 Sep 8;414(2):405-8.															
	CN	Roberts, RW et al. "RNA-peptide fusions for the in vitro selection of peptides and proteins". Proc Natl Acad Sci U S A. 1997 Nov 11;94(23):12297-302.															
	CO	Kurz, M et al. "An efficient synthetic strategy for the preparation of nucleic acid-encoded peptide and protein libraries for in vitro evolution protocols" Fourth International Electronic Conference on Synthetic Organic Chemistry (ECSOC-4), www.mdpi.org/ecsoc-4.htm, September 1-30, 2000															
	CP	Kurz, M et al. "Psoralen photo-crosslinked mRNA-puromycin conjugates: a novel template for the rapid and facile preparation of mRNA-protein fusions. Nucleic Acids Res. 2000 Sep 15;28(18):E83.															
	CQ	Keiler et al. "Role of a peptide tagging system in degradation of proteins synthesized from damaged messenger RNA". Science. 1996 Feb 16;271(5251):990-3.															
	CR	Benner, SA. "Expanding the genetic lexicon: incorporating non-standard amino acids into proteins by ribosome-based synthesis". Trends Biotechnol. 1994 May;12(5):158-63															
	CS	Mendel, D." Site-directed mutagenesis with an expanded genetic code". Annu. Rev. Biophys. Biomol. Struc. 1995. 24:463-93															
	CT	Liu DR et al. "Engineering a tRNA and aminoacyl-tRNA synthetase for the site-specific incorporation of unnatural amino acids into proteins in vivo". Proc Natl Acad Sci U S A. 1997 Sep 16;94(19):10092-7.															
	CU	Liu DR et al. "Progress toward the evolution of an organism with an expanded genetic code". Proc Natl Acad Sci USA. 1999 Apr 27;96(9):4780-5															
	CV	Liu, R et al. "Optimized synthesis of RNA-protein fusions for in vitro protein selection". Methods Enzymol. 2000;318:268-93.															
	CW	Wang, L et al. "A new functional suppressor tRNA/aminoacyl-tRNA synthetase pair for the in vivo incorporation of unnatural amino acids into proteins" J. Am. Chem. Soc. 2000, 122, 5010-5011 Pub 5 April 2000															
	CX	Ellman J.A., et al. "Biosynthetic method for introducing Unnatural Amino acids site specifically into proteins". Methods Enzymol. 202, 301-336 (1992)															
	CY	Jose Salas et al. "Biosynthetic Polydeoxynucleotides as Direct Templates for Polypeptide Synthesis". J. of Biological Chemistry, vol.243, No. 6, 1968, p. 1012-1015															
	CZ	Walder JA, Walder RY, Heller MJ, Freier SM, Letsinger RL, Klotz IM. "Complementary carrier peptide synthesis: general strategy and implications for prebiotic origin of peptide synthesis". Proc Natl Acad Sci U S A. 1979 Jan;76(1):51-5.															
	DB	Bruick et al. "Template-directed ligation of peptides to oligonucleotides" Chemistry and Biology, vol. 3, No. 1, January 1996, p. 49-56;															
	DB	Tamura K, Schimmel P. "Oligonucleotide-directed peptide synthesis in a ribosome- and ribozyme-free system". Proc Natl Acad Sci U S A. 2001 Feb 13;98(4):1393-7.															
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DC	Lewis RJ, Hanawalt PC. "Ligation of oligonucleotides by pyrimidine dimers--a missing 'link' in the origin of life?" 22;298(5872):393-6.		
DD	Liu J, Taylor JS. "Template-directed photoligation of oligodeoxyribonucleotides via 4-thiothymidine". Nucleic Acids Res. 1998 Jul 1;26(13):3300-4		
DE	Fujimoto et al. "Template-directed photoreversible ligation of deoxyoligonucleotides via 5-Vinyldeoxyuridine" J. Am. Soc. 2000, 122, 5646-5647		
DF	Kenzo Fujimoto, Shigeo Matsuda, Naoki Ogawa, Masayuki Hayashi & Isao Saito "Template-directed reversible photocircularization of DNA via 5-vinyldeoxycytidine". TETRAHEDRON LETTERS 2000 , 41:33:6451-6454		
DG	Kenzo Fujimoto, Naoki Ogawa, Masayuki Hayashi, Shigeo Matsuda & Isao Saito "Template directed photochemical synthesis of branched oligodeoxynucleotides via 5-carboxyvinyldeoxyuridine". Tetrahedron letters 2000, 41:49:9437-40		
DH	Letsinger et al. "Chemical Ligation of oligonucleotides in the presence and absence of a template". J. Amer. Chem. Soc. 1993, 115, 3808-9		
DI	Gryaznov SM, Letsinger RL. "Template controlled coupling and recombination of oligonucleotide blocks containing thiophosphoryl groups". Nucleic Acids Res. 1993 Mar 25;21(6):1403-8		
DJ	Gryaznov SM, Schultz R, Chaturvedi SK, Letsinger RL. "Enhancement of selectivity in recognition of nucleic acids via chemical autoligation". Nucleic Acids Res. 1994 Jun 25;22(12):2366-9.		
DK	Herrlein MK, Letsinger RL. "Selective chemical autoligation on a double-stranded DNA template". Nucleic Acids Res. 1994 Nov 25;22(23):5076-8		
DL	Letsinger, RL; Wu, T; Elghanian, R "Chemical and photochemical ligation of oligonucleotide blocks". Nucleosides and nucleotides, 16(5&6), 643-652 (1997)		
DM	Visscher J, Schwartz AW "Template-directed synthesis of acyclic oligonucleotide analogues". J Mol Evol. 1988 Dec-1989 Feb;28(1-2):3-6.		
DO	Visscher J, Bakker CG, van der Woerd R, Schwartz AW "Template-directed oligomerization catalyzed by a polynucleotide analog". Science. 1989 Apr 21;244(4902):329-31.		
DQ	Visscher J, van der Woerd R, Bakker CG, Schwartz AW. "Oligomerization of deoxynucleoside-bisphosphate dimers: template and linkage specificity". Orig Life Evol Biosph. 1989;19(1):3-6.		
DP	Zhan, ZJ and Lynn, DG "Chemical Amplification through template-directed synthesis". J. Am. Chem. Soc. 1997, 119, 12420-1		
DQ	Bruick RK, Koppitz M, Joyce GF, Orgel LE. "A simple procedure for constructing 5'-amino-terminated oligodeoxynucleotides in aqueous solution Nucleic Acids Res". 1997 Mar 15;25(6):1309-10		
DR	Albagli, D; Atta, RVA; Cheng, P; Huan, B and Wood, ML. "Chemical amplification (CHAMP) by a continuous, self-replicating oligonucleotide-based system" J. Am. Chem. Soc. 1999, 121, 6954-6955. Pub. on the web 14 July 1999.		
DS	Xu, Y and Kool, E "Rapid and Selective selenium-mediated autoligation of DNA strands" J. Am. Chem. Soc. 2000, 122, 9040-1 Pub. on web 08/31/2000.		
DT	Xu Y, Karalkar NB, Kool ET. "Nonenzymatic autoligation in direct three-color detection of RNA and DNA point mutations". Nat Biotechnol. 2001 Feb;19(2):148-52.		
DU	Li X, Zhan ZY, Knipe R, Lynn DG. "DNA-catalyzed polymerization". J Am Chem Soc. 2002 Feb 6;124(5):746-7.		
DV	Czapinski, JL and Sheppard, TL. "Nucleic acid template-directed assembly of metallosalen-DNA conjugates". J Am Chem Soc. 2001 Sep 5;123(35):8618-9 published on the web 08/10/2001		
DW	Leitzel JC, Lynn DG "Template-directed ligation: from DNA towards different versatile templates". Chem Rec. 2001;1(1):53-62. Published online 30 Jan 2001.		
DX	Schmidt JG, Nielsen PE, Orgel LE. "Information transfer from DNA to peptide nucleic acids by template-directed syntheses". Nucleic Acids Res. 1997 Dec 1;25(23):4792-4796.		
DY	DOWER, WJ et al. "In vitro selection as a powerful tool for the applied evolution of proteins and peptides". Current Opinion in Chemical Biology. 2002, 6:390-398.		
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	DZ	Brenner, S and Lerner, RA . "Encoded combinatorial chemistry" Proc. Natl. Acad. Sci. USA. Vol 89, p 5381-3, June 1992.	
	EA	Gartner, Z; Liu, DR "The generality of DNA-templated synthesis as a basis for evolving non-natural small molecules". J Am Chem Soc. 2001 Jul 18;123(28):6961-3.	
	EB	David Liu. "Expanding the reaction scope of DNA-templated synthesis Angew". Chem. Int. Ed. 2002, 41, No. 10 pp. 1796-1800. Published May 15, 2002.	
	EC	Gartner, ZJ et al. "Multistep small-molecule synthesis programmed by DNA templates". J. AM. CHEM. SOC. Vol. 124, No. 35, 2002, 10304-10306.	
	ED	Calderone, CT et al. "Directing otherwise incompatible reactions in a single solution by using DNA-templated organic synthesis". Angew Chem Int Ed, 2002, 41, No. 21. 4104-4108.	
	EE	Bittker, JA; Phillips, KJ and Liu, DR "Recent advances in the in vitro evolution of nucleic acids". Curr Opin Chem Biol. 2002 Jun;6(3):367-74. Review. Pub. on the web 20 th March 2002.	
	EF	Summerer,D and Marx, A "DNA-templated synthesis: more versatile than expected". Angew Chem Int Ed Engl. 2002 Jan 4;41(1):89-90. Review.	
	EG	Gartner, ZJ et al. "Two enabling architectures for DNA-templated organic synthesis ". Angew. Chem Int. Ed. 2003, 42, No. 12, 1370-1375.	
	EH	Rosenbaum, DM et al. "Efficient and sequence-specific DNA-templated polymerization of peptide nucleic acid aldehydes". J. AM. CHEM. SOC. Vol. 125, No. 46, 2003, 13924-13925.	
	EI	Li, X et al. "Stereoselectivity in DNA-templated organic synthesis and its origins". J. AM. CHEM. SOC. Vol. 125, No. 34, 2003, 10188-10189.	
	EJ	Gordon, EM et al. "Applications of combinatorial technologies to drug discovery. 2. Combinatorial organic synthesis, library screening strategies, and future directions". Journal of Medicinal Chemistry, Vol. 37, No. 10, May 13, 1994.	
	EK	Otto, S et al. "Recent developments in dynamic combinatorial chemistry". Current opinion in Chemical Biology 2002, 6: 321-327.	
	EL	Pavia, MR. "The Chemical generation of molecular diversity". http://www.netsci.org/Science/Combichem/feature01.html	
	EM	Braun, E, et al. "DNA-templated assembly and electrode attachment of a conducting silver wire". Nature, Vol. 391, 19 February 1998, 775-778.	
	EN	Tanaka, K et al. "Synthesis of a novel nucleoside for alternative DNA base pairing through metal complexation" J. Org. Chem. 1999, 64, 5002-5003.	
	EO	Beger, M et al. "Universal bases for hybridization, replication and chain termination", Nucleic acids research, Oxford University Press, vol. 28, no. 15, pub. 1 Aug. 2000, p2911-2914.	
	EP	Weizman, H et al. "2,2'-Bipyridine ligandoside: a novel building block for modifying DNA with intra-duplex metal complexes". J. Am. Chem. Soc. 2001, 123, 3375-3376.	
	EO	Frutos, AG et al. "Demonstration of a word design strategy for DNA computing on surfaces". Nucleic Acids Research, 1997, Vol. 25, No. 23, 4748-4757.	
	ER	Loweth, CJ et al. "DNA-based assembly of gold nanocrystals". Angew. Chem. Int. Ed. 1999, 38, No. 12. 1808-1812.	
	ES	Elghanian, R et al. "Selective colorimetric detection of polynucleotides based on the distance-dependent optical properties of gold nanoparticles". Science, Vol. 277, 22 August 1997.	
	ET	Storhoff, JJ and Mirkin, CA. "Programmed Materials Synthesis with DNA". Chem Rev. 1999 Jul 14;99(7):1849-1862.	
	EU	Mirkin CA. "Programming the assembly of two- and three-dimensional architectures with DNA and nanoscale inorganic building blocks". Inorg Chem. 2000 May 29;39(11):2258-72.	
	EV	Waybright SM, Singleton CP, Wachter K, Murphy CJ, Bunz UH. "Oligonucleotide-directed assembly of materials: defined oligomers". J Am Chem Soc. 2001 Mar 7;123(9):1828-33. Pub. on web 02/07/2001.	
	EW	Bruce Smith and Markus Krummenacker "DNA-guided assembly of proteins as a pathway to an assembler", (http://www.wadsworth.org/albcgn97/abstract/krummenacker.htm): 1997 Albany Conference: Biomolecular Motors and Nanomachines	
	EX	DeWitt, SH et al. "Diversomers": an approach to nonpeptide, nonoligomeric chemical diversity". Proc. Natl. Acad. Sci. USA, Vol. 90, pp. 6909-6913, August 1993.	
	EY	Nielsen, J et al. "Synthetic methods for the implementation of encoded combinatorial chemistry". J. Am. Chem. Soc. 1993, 115, 9812-9813.	
	EZ	Ohlmeyer, MHJ et al. "Complex synthetic chemical libraries indexed with molecular tags". Proc. Natl. Acad. Sci. USA, Vol. 90, pp. 10922-10926, Dec. 1993, Chemistry.	
	FA	Zuckermann, RN et al. "Discovery of nanomolar ligands for 7-transmembrane G-protein-coupled receptors from a diverse N-(substituted) glycine peptoid library". J. Med. Chem. 1994, 37, 2678-2685.	
	FB	Luo, P et al. "Analysis of the structure and stability of a backbone-modified oligonucleotide: implications for avoiding product inhibition in catalytic template-directed synthesis". J. Am. Chem. Soc. 1998, 120, 3019-3031	
	FC	Luther, A et al. "Surface-promoted replication and exponential amplification of DNA analogues". Nature, Vol. 396, 19 November 1998, 245-248.	
	FD	Klekota, B et al. "Selection of DNA-Binding Compounds via Multistage Molecular Evolution". Tetrahedron 55 (1999) 11687-11697.	
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FE	Furlan, RLE et al. "Molecular amplification in a dynamic combinatorial library using non-covalent interactions". Chem. Commun., 2000, 1761-1762.		
FF	Ramström, O et al. "In situ generation and screening of a dynamic combinatorial carbohydrate library against concanavalin A". ChemBioChem, 2000, 1, 41-48.		
FG	Cousins, GRL et al. "Identification and Isolation of a Receptor for N-Methyl Alkylammonium Salts: Molecular Amplification in a Pseudo-peptide Dynamic Combinatorial Library". Angew. Chem. Int. Ed., 2001, 40, No. 2, 423-427.		
FH	Roberts, SI et al. "Simultaneous selection, amplification and isolation of a pseudo-peptide receptor by an immobilised N-methyl ammonium ion template". Chem. Commun., 2002, 938-939.		
FI	Doyon, J.B et al. "Highly sensitive in vitro selections for DNA-linked synthetic small molecules with protein binding affinity and specificity" J. AM. CHEM. SOC., September 16, 2003.		
FJ	Kanan, M.W et al. "Reaction discovery enabled by DNA-templated synthesis and in vitro selection" Nature, Vol. 431, 30 September 2004.		
FK	"Finding reactions in a haystack: Try'em all, see what works" Meeting American Chemical Society, 10 September 2004, Vol. 305, Science.		
FL	"The Nucleus", January 2004, Vol. LXXXII, No. 5, R. Grubina; "Summer Research Report: R. Grubina on DNA Templatd Synthesis for Small Molecule Library", p10-14		
FM	Nazarenko et al., "A closed tube format for amplification and detection of DNA based on energy transfer", Nucleic Acids Research, 1997, Vol. 25, No. 12, p2516-2521		
FN	Chen et al., "Intra-tRNA distance measurements for nucleocapsid protein-dependent tRNA unwinding during priming of HIV reverse transcription", PNAS Vol. 96, p459-464, January 1999.		
FO	Liu DR ET AL., DNA-templated synthesis as a basis for the evolution of synthetic molecules, ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY; 225: 612-ORGN , Part 2, MAR 2003		
FP	Rodriguez et al., "Template-directed extension of a guanosine 5'-phosphate covalently attached to an oligodeoxycytidylate template", J Mol Evol (1991) 33:477-482		
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